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L22 L20 and compar\$

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| <u>L20</u> | L17 and violat\$ and events | 26 | <u>L20</u> |
| <u>L19</u> | L18 and mapping | 2 | <u>L19</u> |
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| <u>L11</u> | map\$ near event\$ and config\$ near polic\$ | 15 | <u>L11</u> |
| <u>L10</u> | L7 and mapp\$ near events | 1 | <u>L10</u> |
| <u>L9</u> | L8 and mapp\$ near event\$ | 1 | <u>L9</u> |
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| <u>L7</u> | L6 and config\$ near polic\$ | 86 | <u>L7</u> |
| <u>L6</u> | polic\$ near violat\$ | 857 | <u>L6</u> |
| <u>L5</u> | config\$ near polic\$ near violat\$ | 4 | <u>L5</u> |
| <u>L4</u> | L3 and violat\$ | 2 | <u>L4</u> |
| <u>L3</u> | L1 and config\$ near check\$ | 26 | <u>L3</u> |
| <u>L2</u> | L1 and config% near check\$ | 0 | <u>L2</u> |
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L34 L29 and scan\$

2 L34

| | | | |
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| <u>L32</u> | L30 and violat\$ | 2 | <u>L32</u> |
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| <u>L28</u> | L27 and check\$ | 38 | <u>L28</u> |
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| <u>L26</u> | L25 and polic\$ near event | 0 | <u>L26</u> |
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| <u>L24</u> | L15 and local near polic\$ | 0 | <u>L24</u> |
| <u>L23</u> | L15 and proactive | 0 | <u>L23</u> |
| <u>L22</u> | L21 and local adj policy | 0 | <u>L22</u> |
| <u>L21</u> | L20 and proactive | 0 | <u>L21</u> |
| <u>L20</u> | L15 and config\$ near violat\$ | 0 | <u>L20</u> |
| <u>L19</u> | L15 and polic\$ near violat\$ | 0 | <u>L19</u> |
| <u>L18</u> | L17 and polic\$ near violat\$ | 0 | <u>L18</u> |
| <u>L17</u> | L15 and configuration near policy | 0 | <u>L17</u> |
| <u>L16</u> | L15 and policy near trigger | 0 | <u>L16</u> |
| <u>L15</u> | L14 and trigger | 134 | <u>L15</u> |
| <u>L14</u> | L11 and checking | 134 | <u>L14</u> |
| <u>L13</u> | L11 and polic\$ near check\$ | 0 | <u>L13</u> |
| <u>L12</u> | L11 and config\$ near check\$ | 0 | <u>L12</u> |
| <u>L11</u> | L10 and compar\$ | 134 | <u>L11</u> |
| <u>L10</u> | L9 and map\$ | 134 | <u>L10</u> |
| <u>L9</u> | L7 and events | 134 | <u>L9</u> |
| <u>L8</u> | L7 and map\$ near event\$ | 0 | <u>L8</u> |
| <u>L7</u> | L6 and scann\$ | 140 | <u>L7</u> |
| <u>L6</u> | L5 and check\$ | 150 | <u>L6</u> |
| <u>L5</u> | L4 and configura\$ | 151 | <u>L5</u> |
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IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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- ☐ 1. Policy-based validation of SAN configuration
Agrawal, D.; Giles, J.; Kang-Won Lee; Voruganti, K.; Filali-Adib, K.;
[Policies for Distributed Systems and Networks, 2004. POLICY 2004. Proceedi](#)
[International Workshop on](#)
7-9 June 2004 Page(s):77 - 86
Digital Object Identifier 10.1109/POLICY.2004.1309152
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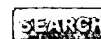


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1 [Taking the byte out of cookies: privacy, consent, and the Web](#)



Daniel Lin, Michael C. Loui

June 1998 **ACM SIGCAS Computers and Society , Proceedings of the ethics and social impact component on Shaping policy in the information age ACM POLICY '98**, Volume 28 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.99 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We consider the privacy of personal information on the World Wide Web, emphasizing a concept of privacy as an aspect of social relationships between individuals. We make three contributions to understanding the right to privacy on the Web: (1) we highlight the role of informed consent as an important consideration for privacy, (2) we identify conditions under which the collection and centralization of personal information can be ethically justified, and (3) we offer an interpretation of a "reason ...

2 [Papers from Hotnets-II: Practical verification techniques for wide-area routing](#)



Nick Feamster

January 2004 **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 1

Publisher: ACM Press

Full text available: [pdf\(156.78 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Protocol and system designers use verification techniques to analyze a system's correctness properties. Network operators need verification techniques to ensure the "correct" operation of BGP. BGP's distributed dependencies cause small configuration mistakes or oversights to spur complex errors, which sometimes have devastating effects on global connectivity. These errors are often difficult to debug because they are sometimes only exposed by a specific message arrival pattern or failure scenario ...

3 [Understanding BGP misconfiguration](#)



Ratul Mahajan, David Wetherall, Tom Anderson

August 2002 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '02**, Volume 32 Issue 4

Publisher: ACM Press

Full text available: [pdf\(312.33 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

terms

It is well-known that simple, accidental BGP configuration errors can disrupt Internet connectivity. Yet little is known about the frequency of misconfiguration or its causes, except for the few spectacular incidents of widespread outages. In this paper, we present the first quantitative study of BGP misconfiguration. Over a three week period, we analyzed routing table advertisements from 23 vantage points across the Internet backbone to detect incidents of misconfiguration. For each incident we ...

4 Optimising channel assignments for private mobile radio networks in the UHF 2 band ☐

Roger M. Whitaker, Steve Hurley, Stuart M. Allen
November 2002 **Wireless Networks**, Volume 8 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(157.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Private mobile radio (PMR) services are widely used in business and emergency applications. Typically, these services use the UHF 2 band (450-470 MHz). In order to comply with continental practice, the provision of these services in the UK is to be realigned and a new operational assignment will be generated in 2005. However, this can only be achieved with an appropriate model and the ability to make assignments for large regional networks. The purpose of this paper is to bring our experiences o ...

Keywords: UHF 2 band, channel assignment

5 MIRO: multi-path interdomain routing ☐



Wen Xu, Jennifer Rexford
August 2006 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '06**, Volume 36 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(236.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Internet consists of thousands of independent domains with different, and sometimes competing, business interests. However, the current interdomain routing protocol (BGP) limits each router to using a single route for each destination prefix, which may not satisfy the diverse requirements of end users. Recent proposals for source routing offer an alternative where end hosts or edge routers select the end-to-end paths. However, source routing leaves transit domains with very little control an ...

Keywords: BGP, flexibility, inter-domain routing, multipath routing, scalability

6 Short paper session: A QoS policy configuration modeling language for publish/subscribe middleware platforms ☐



Joe Hoffert, Douglas Schmidt, Aniruddha Gokhale
June 2007 **Proceedings of the 2007 inaugural international conference on Distributed event-based systems DEBS '07**

Publisher: ACM Press

Full text available:  [pdf\(1.51 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Publish/subscribe (pub/sub) middleware platforms for event-based distributed systems often provide many configurable policies that affect end-to-end quality of service (QoS). Although the flexibility and functionality of pub/sub middleware platforms has matured, configuring their QoS policies in semantically compatible ways has become more complex. This paper makes two contributions to reducing the complexity of configuring QoS policies for event-based distributed systems. First, it evaluates ...

Keywords: data distribution service, domain-specific modeling languages, event-based distributed systems, pub/sub middleware

- 7 Secure Embedded Processing through Hardware-Assisted Run-Time Monitoring ☐
Divya Arora, Srivaths Ravi, Anand Raghunathan, Niraj K. Jha
March 2005 **Proceedings of the conference on Design, Automation and Test in Europe
- Volume 1 DATE '05**

Publisher: IEEE Computer Society

Full text available:  [pdf\(222.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citings](#), [index terms](#)

Security is emerging as an important concern in embedded system design. The security of embedded systems is often compromised due to vulnerabilities in "trusted" software that they execute. Security attacks exploit these vulnerabilities to trigger unintended program behavior, such as the leakage of sensitive data or the execution of malicious code. In this work, we present a hardware-assisted paradigm to enhance embedded system security by detecting and preventing unintended program behavior. Sp ...

- 8 Wireless LANs: A-DRAFT: an adaptive QoS mechanism to support absolute and relative throughput in 802.11 wireless LANs ☐



Wasan Pattara-Atikom, Sujata Banerjee, Prashant Krishnamurthy

October 2004 **Proceedings of the 7th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems MSWiM '04**

Publisher: ACM Press

Full text available:  [pdf\(304.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Several distributed QoS mechanisms have been proposed to augment the existing distributed coordination function of the IEEE 802.11 MAC protocol to provide QoS support for QoS-sensitive applications. These mechanisms use well-known QoS enabling techniques such as priority assignment and fair scheduling within existing 802.11 MAC parameters. Although these mechanisms provide differentiated throughput for different classes of traffic, they cannot provide both relative and absolute throughput support ...


Keywords: quality of service, throughput, wireless LANs

- 9 Verifying protocols by model checking: a case study of the wireless application protocol and the model checker SPIN ☐

Yu-Tong He, Ryszard Janicki

October 2004 **Proceedings of the 2004 conference of the Centre for Advanced Studies on Collaborative research CASCON '04**

Publisher: IBM Press

Full text available:  [pdf\(326.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

This paper deals with a formal verification of protocols, where the model checking approach is applied. As a case example, the Wireless Application Protocol (WAP Version 2.0) and the SPIN model checker are used. The paper concentrates on the Transaction Layer, in which some defects have been uncovered and proper corrections have been proposed.

- 10 Access control policy management: Composing and combining policies under the policy machine ☐



David F. Ferraiolo, Serban Gavrila, Vincent Hu, D. Richard Kuhn

June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies SACMAT '05**

Publisher: ACM Press

Full text available: [pdf\(323.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As a major component of any host, or network operating system, access control mechanisms come in a wide variety of forms, each with their individual attributes, functions, methods for configuring policy, and a tight coupling to a class of policies. To afford generalized protection, NIST has initiated a project in pursuit of a standardized access control mechanism, referred to as the Policy Machine (PM) that requires changes only in its configuration in the enforcement of arbitrary and organizati ...

Keywords: access control, multi-level security, role based access control, separation of duty

11 Self-aware management of IP networks with QoS guarantees

Francine Krief

September 2004 **International Journal of Network Management**, Volume 14 Issue 5

Publisher: John Wiley & Sons, Inc.

Full text available: [pdf\(204.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Self-aware management allows the network to react and to adapt to changes of situation. In this paper an architecture is described for self-aware management of IP networks offering QoS guarantees. This architecture uses policy-based management and multi-agent systems. The originality of the present approach lies in the intention to give a real autonomy to the components intervening in the chain of services in terms of internal decisions and configuration. Our solution allows the self-configurati ...

12 Papers from Hotnets-II: The cutting EDGE of IP router configuration



Don Caldwell, Anna Gilbert, Joel Gottlieb, Albert Greenberg, Gisli Hjalmytsson, Jennifer Rexford

January 2004 **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 1

Publisher: ACM Press

Full text available: [pdf\(199.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Human error in configuring routers undermines attempts to provide reliable, predictable end-to-end performance on IP networks. Manual configuration, while expensive and error-prone, is the dominant mode of operation, especially for large enterprise networks. These networks often lack the basic building blocks---an accurate equipment inventory, a debugged initial configuration, and a specification of local configuration policies---to support the holy grail of automation. We argue the *migrating* ...

13 Development of a timing analysis program for multiple clocked network



Edward Chan

June 1985 **Proceedings of the 22nd ACM/IEEE conference on Design automation DAC '85**

Publisher: ACM Press

Full text available: [pdf\(379.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the development of a timing analysis program for logic networks using both critical path and enumerative trace methods. The program utilizes the dynamic data structure of Pascal and its recursive computing power such that depth first search and breath first search can be carried out for delay calculations in a highly efficient manner. The program detects long and short paths between storage elements, setup and

hold time violations of flip-flop, and minimum pulse width v ...

14 Adaptive integration of third-party web services



Giovanni Denaro, Mauro Pezzé, Davide Tosi

May 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2005 workshop on Design and evolution of autonomic application software**

DEAS '05, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(392.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Service based computing allows clients to dynamically bind services, and providers to modify the service implementation independently from their clients. The impossibility of statically determining which service implementation will be bound at runtime may lead to unexpected client-side failures. This position paper suggests a scenario in which service-based applications autonomously react to changes in the implementation of the used services, automatically detect possible integration mismatches, ...

Keywords: integration faults, self-adaptive service oriented architecture, web services

15 Secure operating systems: A logical specification and analysis for SELinux MLS policy



Boniface Hicks, Sandra Rueda, Luke St.Clair, Trent Jaeger, Patrick McDaniel

June 2007 **Proceedings of the 12th ACM symposium on Access control models and technologies SACMAT '07**

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The SELinux mandatory access control (MAC) policy has recently added a multi-level security (MLS) model which is able to express a fine granularity of control over a subject's access rights. The problem is that the richness of this policy makes it impractical to verify, by hand, that a given policy has certain important information flow properties or is compliant with another policy. To address this, we have modeled the SELinux MLS policy using a logical specification and implemented that spe ...

Keywords: SELinux, multi-level security, policy analysis, policy compliance

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